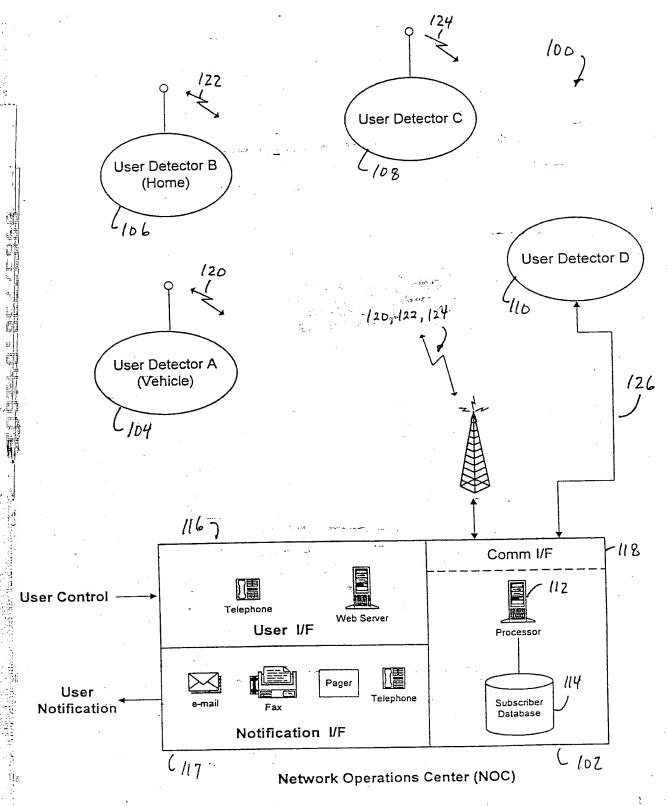
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Three Embarcadero Center,
San Francisco, California 94111
Serial No.: Not Yet Assigned
Filing Date: April 16, 2001
Inventors: Bristow, et al.
Titled: SOFTWARE AND PROTOCOT STRUCTURE
FOR AN AUTOMATED USER NOTIFICATION SYSTEM
Express Mailing Label No.: EL710236861US
Figure 1 of 19
Attorney Docket No. 22962-7005



San Francisco, California 94111
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Figure 2 of 19 Attorney Docket No. 22962-7005

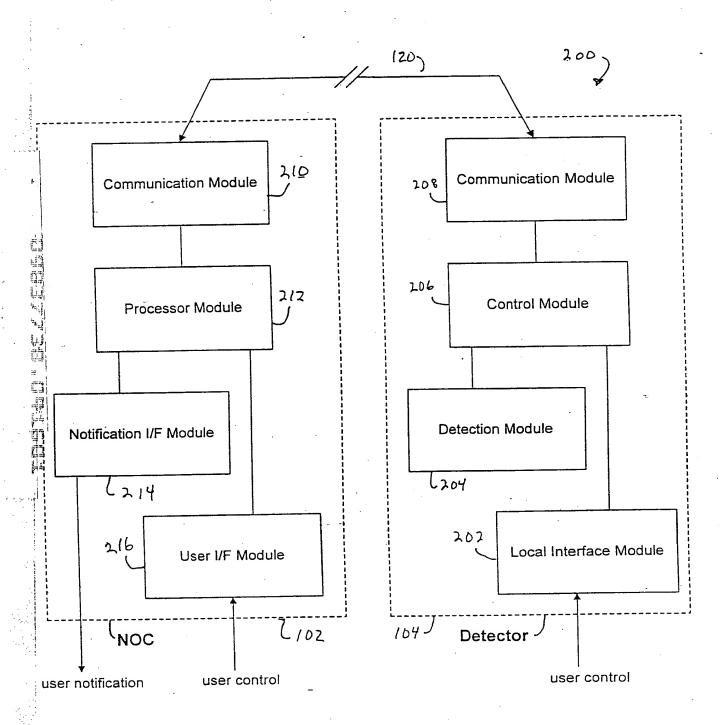


FIG. 2

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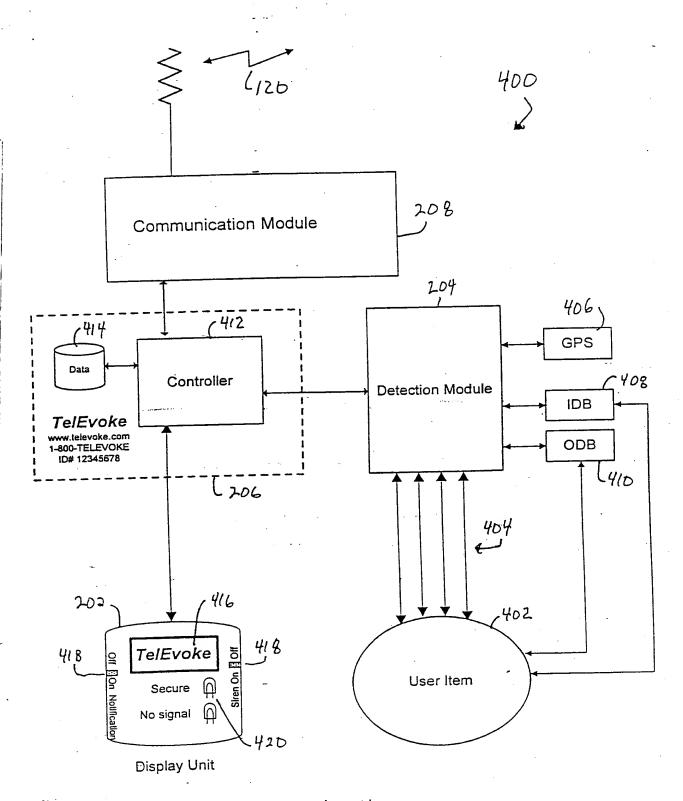
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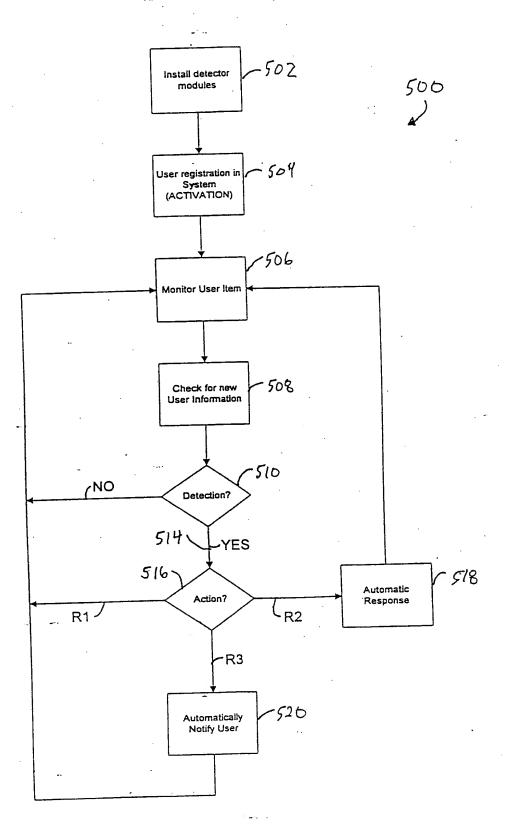
Figure 3 of 19 Attorney Docket No. 22962-7005 120 F16,3 Cellular Control Channel network 300 Cellular Control Channel service -304 provider 102. حايد Communication Module 1212 302 334 3221 112 Subscriber Credit Card Database Merchant Billing Processor 316. 318. 310 User via phone Notification Processor Interactive 3205 processor Pager Telephone User via web - 214

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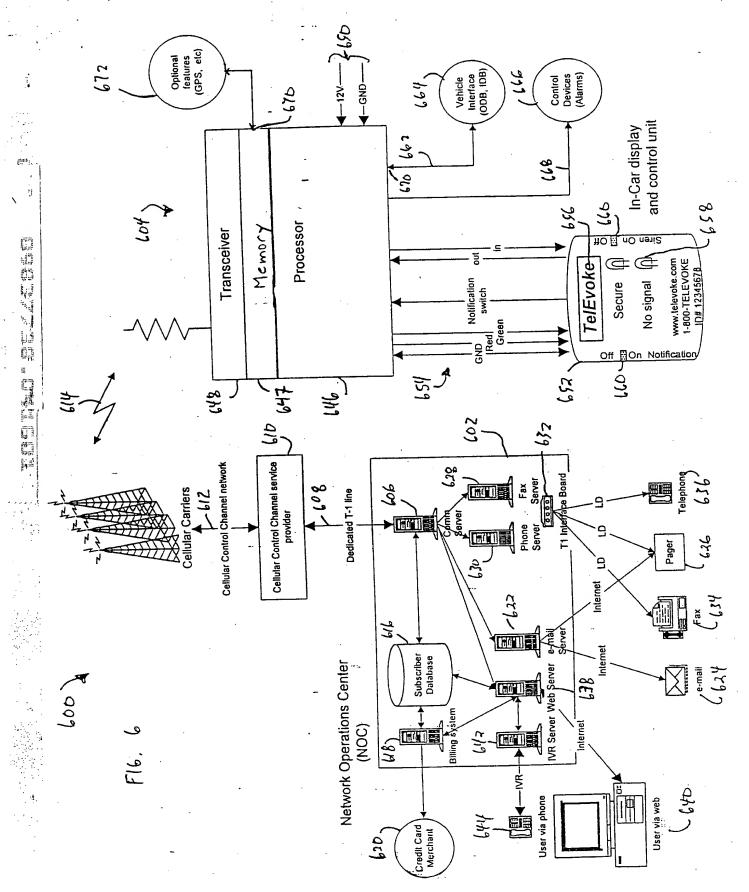
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Figure 7 of 19 Attorney Docket No. 22962-7005

700

1	ID NUMBER	CONDITION
dani: "Hand" 'Ven	0	Doors Lock/Unlocked
Constitution of the consti	1	Windows Up/Down
	2	Alarm Arm/Disarm
# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	Sunroof Open/Close
204	4	Trunk Open/Close
	5	Lights On/Off 702
- International Park	6	Horn On/Off
vector product	7	Engine
en experiments	8	Ignition
analog danamak	9	GPS Tracking
i. A		
	- -	

F16.

802 ) Interface type	- ( 804 Device						
serial port	IDB (Doors Lock/Unlocked)						
serial port	IDB (Windows Up/Down)						
twist pair	Alarm Arm/Disarm						
serial port	IDB (Sunroof Open/ Close)						
serial port	IDB (Trunk Open/Close)						
serial port	IDB (Lights On/Off)						
twist pair	Horn On/Off						
serial port	OBD (Engine)						
serial port	OBD (Ignition)						
906 parallel port	GPS Tracking 808						
twist pair	Misc.						

IDB = Intelli gent Data Bus (devices available)

OBD = On Board Diagnostic (engine functions)

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Figure 9 of 19 Attorney Docket No. 22962-7005

Televoke Login Page

## **TELEVOKE**

## Welcome to televoke.net

Dēvice ID#:	·	902
Passcode:		 904

**ENTER** 

How to get Televoke? Support

Copyright © 1999 Televoke, Inc. All rights reserved.

Note: this is a non-public website and is protected by password security. All content at www.televoke.net and its sub directories is proprietary and confidential

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Televoke - Notification

TELEVOKE	Device 12345678 (BMW)   Your device is Number: Out of Range Currently:
News Notification Control	Tracking Billing Upgrade Support
9(4) — Device Phone Number  Phone (415) 778-0138	Zone: 1 (motion detector)  Message  Rick Bentley's BMW M3 reports doors  Rick Bentley's BMW M3 reports doors
Device Pager Number ☐ Pager ☑	Numeric Message  (415) 555-1234  Esave:
Device E-mail Address ☐ E-mail 🖫	The doors on Rick  Bentley's M3 have  Baye
910	to e

F16. 9B

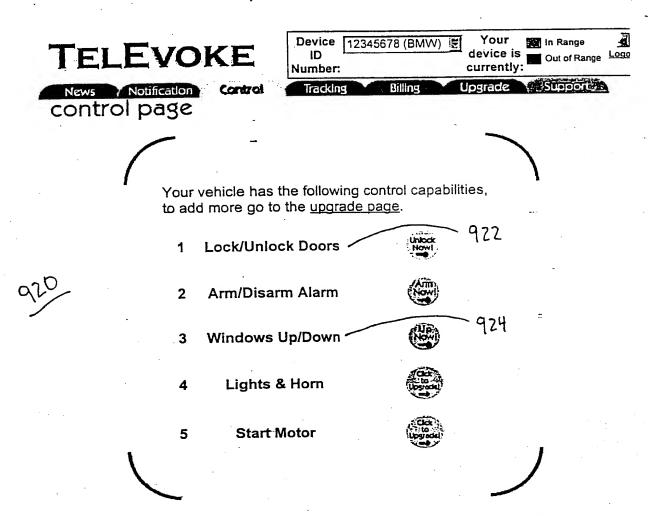
[News][Notification][Control][Tracking][Billing][Upgrade][Support]

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FOR AN ALTOMATED LISED NOTIFIC ATION SYSTEM

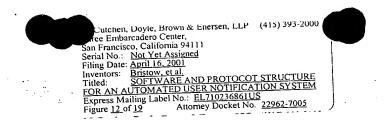
Televoke Control Page



[News][Notification][Control][Tracking][Billing][Upgrade][Support]

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Televoke News and Events Page



Show vehicle position for the last 1 hour |

[News][Notification][Control][Tracking][Billing][Upgrade][Support]

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FOR AN AUTOM Express Mailing L Figure 13 of 19

Televoke News and Events Page

## **TELEVOKE**

Your Device 12345678 (BMW) ID device is Out of Range Logo currently: Number: Upgrade Tracking Billing

Notification दिकारिक

illing period starting on 4/1/99. Click here for previous billing periods.

	Activity for	the current only	a herrori arar m	ng 011 -7 1700. 3	SHORTION OF	
		944)	9465	7948		950
	_Event ∯	/	. Date	Time	Action	Charge N/A
_	162	Notification	4/01/99	11:42pm ca	lled: (415) 555-1234	
	163	Notification	4/01/99	11:42pm pa	ged: (415) 555-4321	ŊΆ
	164	Notification	4/01/99		mail: rick@televoke.com	N/A
	166	Control	4/05/99	2:30pm un		N/A
	167	Tracking	4/12/99	6:45pm w		N/A
	168	Control	4/17/99	6:13pm ur		\$0.50
	168	Notification	4/20/99		lled: (415) 555-1234	\$0. <i>5</i> 0
		-	4/20/99		iged: (415) 555-4321	\$0.50
	169	Notification	4/20/99		mail: rick@televoke.com	\$0.50
	170	Notification	4/20/99	10.43pm 6-	man. Headstele toke.com	

Your current plan includes 5 free events per month. To upgrade your plan for more included events, or more features click on **UPGRADE**.

[News][Notification][Control][Tracking][Billing][Upgrade][Support]

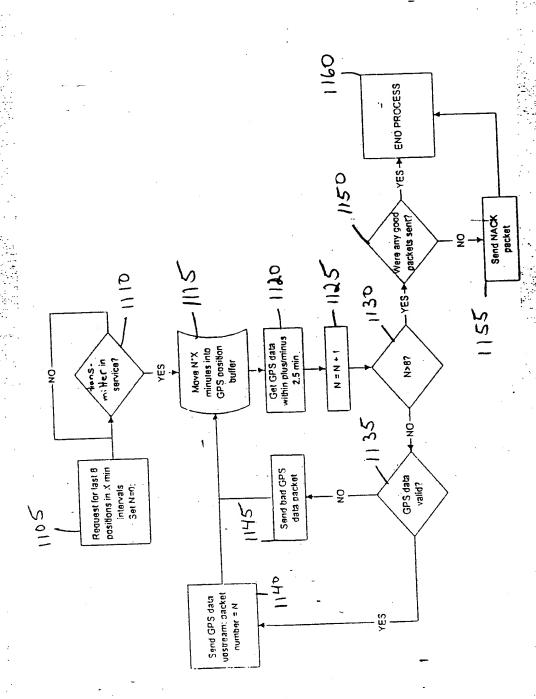
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FIG. 9.E

rcCutchen, Doyle, Brown & Enersen, LLP (415) 393-2000 rec Embarcadero Center, an Francisco, California 94111 Serial No.: Not Yet Assigned Filing Date: April 16, 2001 Inventors: Bristow, et al. Titled: SOFTWARE AND PROTOCOT STRUCTURE FOR AN AUTOMATED USER NOTIFICATION SYSTEM Express Mailing Label No.: EL710236861US Figure 14 of 19 Attorney Docket No. 22962-7005

	Code	WC1	WC2 - 101 -	Tion I moin	WC3	ur WC4	WCS	2	3	4	5	9	WC6	WC7	WC8	WC9	WC10	WC11	7	ched	というないないない というない はいかい はない はない はない はない はない はない はない はない はない はな	
	Message Name	D Activate Account	D Deactivate Account	D Get Last Known Position	D Get Last 8 Pos 5 min	D Get Lust 8 Pos I hour	D Get Last 8 Stops	D Arm and Lock	D Disarm and Unlock	D Activate Output A	D Activate Output B	D Activate Output C	D Disable Sensor A	D Enable Sensor A	D Disable Sensor B	D Enable Sensor B	D Disable Sensor C	D Enable Sensor C		D_Received_and_Dispatched	からから 一日 一日 一日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	
Table 1 Downstream Message Codes		Function	שניייייייייייייייייייייייייייייייייייי	Account Maintenance	Kemole Venicle Macking	Kemore Veincle Hacking	Remote Venicie Hacking	Kemote venicle fracting	Remote Venicle Control (G4 Systems Only)	Remote Venice Control (G4 Systems Only)	Kemote Veincie Control (G. Cystems Only)	Remote Venicle Control (G4 Systems Only)	Kemote Vemera Control (G4 Systems Only)	Remote Vemera Courto (G. 2)	Remote Venicle Control (G4 Systems Only)	Remote Venicle Control (G4 Systems Only)	Kemote Vemera Condot (21.2)	Remote Venicle Condo! (C4 Systems Only)	Remote Vehicle Conuol (U4 3)310th Carl	Emergency Button and Impact Sensor	Response	

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S Table 2	Diair	21		Content	1			200	
(205) Table 2 Upstream Microburst Data Format	100	+		Content Alalin Event Dr-		<i>/</i>		0.01	

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	∞	Stopped			
	7	MM			
	9	W			
	5	SW			W -
	4	S			<u>0</u>
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tion Code Map	-	I Z	opped, dire	·	÷ :
Direc	1	<b>t</b> 7	nicle is st		
305 Table 3	-	Code	When vel	0	
1305	<i></i>			1370	· · · .

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Express Mailing Label No.: EL71023686108
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Attorney Docket No. 22962-7005 ree Embarcadero Center,

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Attorney Docket No. 22962-7005 Figure <u>18</u> of <u>19</u>

1405 1415 1410 Table 4 Upstream Message Codes Alarm Event and Speed Code Message Name Reference Section(s) 1/SP2 NI/SP3 Y(SP4) SPl 00 U\_Sensor\_A Remote Vehicle Tracking 1420 Alarm Event Notification Configuration (G4 Systems Only) 76 5i U\_Sensor\_B 01 26 Remote Vehicle Tracking Alarm Event Notification Configuration (G4 Systems Only) 77 27 52 U Sensor\_C 02 Remote Venicle Tracking Alarm Event Nonfication Configuration (G4 Systems Only) 28 78 03 U\_Door\_Trigger Remote Vehicle Tracking Alarm Event Notification Configuration (G4 Systems Only) 79 29 04 U\_Trunk\_Trigger Remote Vehicle Tracking Alarm Event Nonfication Configuration (G4 Systems Only) 80 30 U\_Hood\_Trigger Remote Vehicle Tracking Alarm Event Notification Configuration (G4 Systems Only) 56 81 06 31 U Ignition Sensor Remote Vehicle Tracking Alarm Event Notification Configuration (G4 Systems Only) 57 82 07 32 U 3 Invalid Valet Codes Remote Vehicle Tracking Alarm Event Notification Configuration (G4 Systems Only) 33 83 80 U BlackJax Activation Remote Vehicle Tracking Alarm Event Notification Configuration (G4 Systems Only) 84 34 U\_System\_OK 09 Remote Vehicle Tracking Alarm Event Notification Configuration (G4 Systems Only) 60 35 10 U Alarm Reset Remote Vehicle Tracking Alarm Event Notification Configuration (G4 Systems Only) 61 86 U 5 Min Pos 11 36 Remote Vehicle Tracking 87 62 12 37 U 1 Hour Pos Remote Vehicle Tracking 88 63 U Last 8 Stops Pos 38 13 Remote Vehicle Tracking 39 64 14 39 U Stops 1 6 Time Remote Vehicle Tracking 90 15 40 65 U Stops 7 8 Time Remote Vehicle Tracking 91 41 16 U\_Button\_911 Emergency Button and Impact Sensor Response 67 92 17 42 U Button Roadside Emergency Button and Impact Sensor Response 93 43 68 U Button Medical 18 Emergency Button and Impact Sensor -Response 19 Remote Vehicle Control (G4 Systems Only) U Command ACK

W-C" 15 M

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SP1 = 6-25 MPH;SP2 = 26-50 MPH;SP3 = 51-75 MPH;SP4 = >76 MPH

Detail of these messages is defined in referenced document Clifford Vehicle Tracking Payload Protocol

Substitute ACK code (1 = received and handled, 2 = received and could not execute) for digit 3, digit 4

<sup>&</sup>amp; 5 command code received per Table 1

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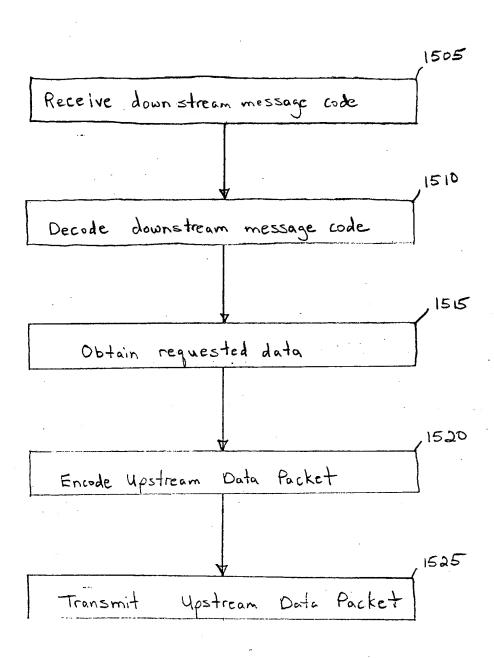


FIG. 15